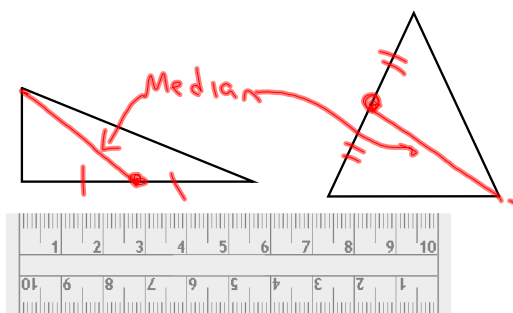
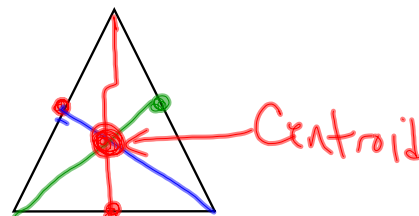


## 4-6 Medians of a Triangle

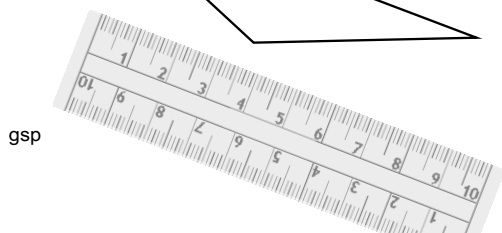
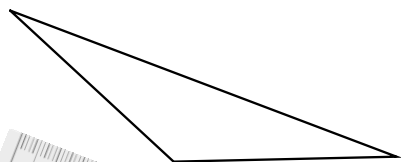
Median of a triangle--segment from a vertex to the midpoint of the opposite side.



Centroid--The point where 3 medians of a triangle intersect

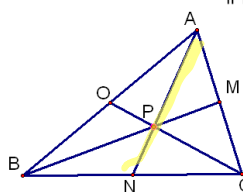


Draw the centroid for the following triangle.



gsp

If P is the centroid of  $\triangle ABC$ , then

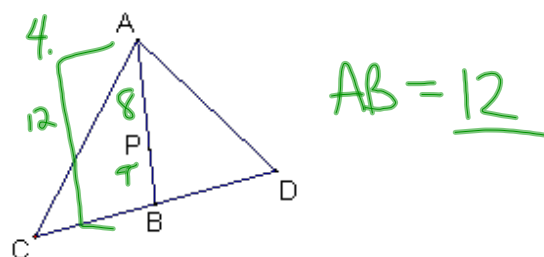
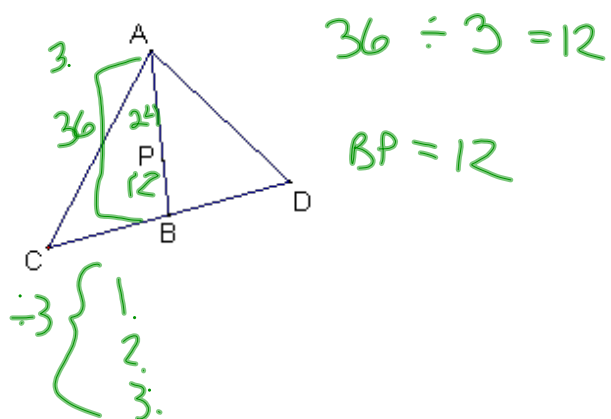
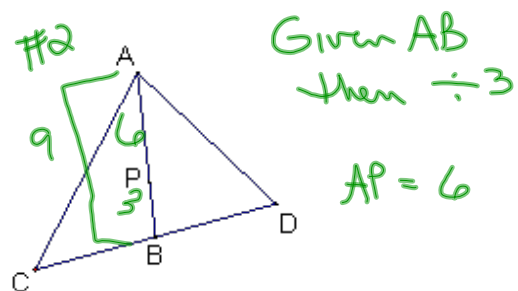
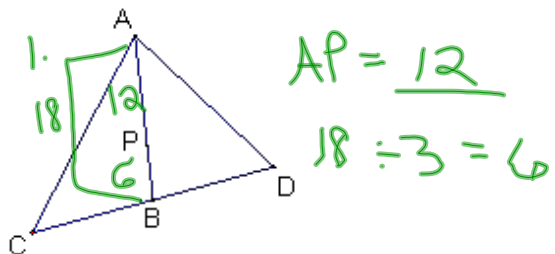


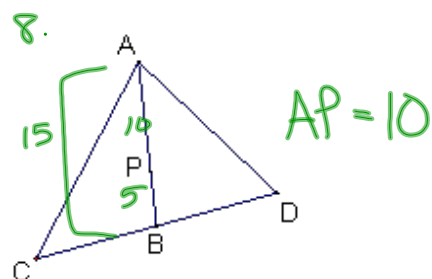
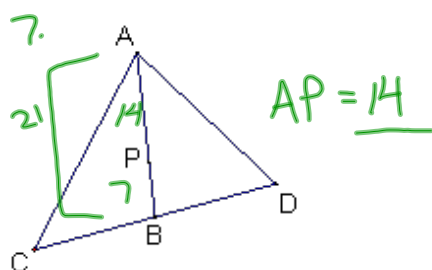
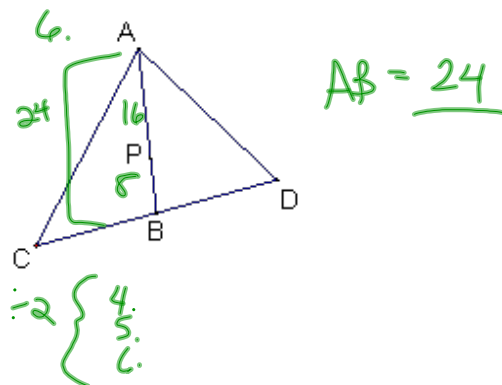
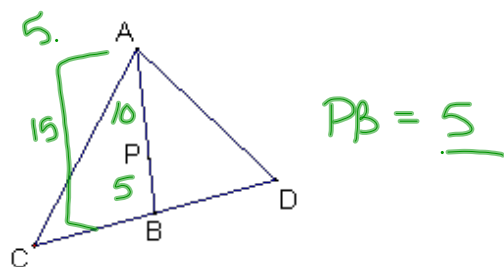
$$AP = \frac{2}{3} AN$$

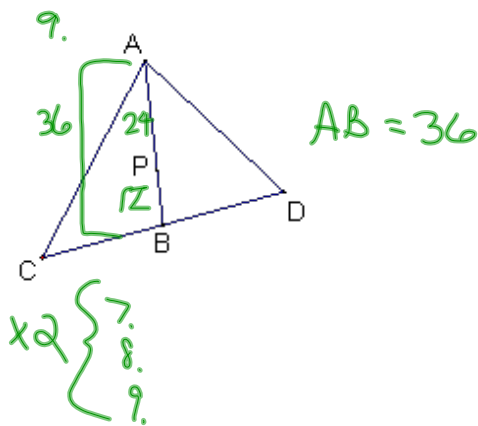
$$PN = \frac{1}{2} AP$$

$$PN = \frac{1}{3} AN$$

Worksheet Examples

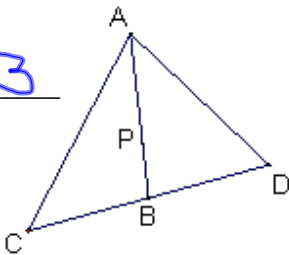






SUMMARY

If given the median, then divide by 3  
(AB)



If given the larger piece of the median, then divide by 2  
(AP)

Attachments

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Centroid\_measures.gsp